

INTERNATIONAL SEARCH REPORT

PCT/GB2004/000984

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F16B13/08 F16B13/06		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 F16B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 523 482 A (PLOCH HENRY W ET AL) 11 August 1970 (1970-08-11)	1,3-6
A	figures 1-3 column 1, line 48 - column 3, line 38 -----	2,7-10
X	US 4 246 688 A (RISDON GRANT S) 27 January 1981 (1981-01-27)	1,3-5
A	the whole document -----	2,6-10
X	US 2003/017024 A1 (WIESER JURGEN ET AL) 23 January 2003 (2003-01-23)	1,3-6
A	figure 3 claims 1,6,7 -----	2,7-10
X	DE 100 15 202 A (HILTI AG) 4 October 2001 (2001-10-04)	1,3-6
A	figure 3 claims 5,8 -----	2,7-10
<input type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *8* document member of the same patent family		
Date of the actual completion of the international search 8 June 2004		Date of mailing of the international search report 22/06/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer Huusom, C

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3523482	A	11-08-1970	NONE	
US 4246688	A	27-01-1981	NONE	
US 2003017024	A1	23-01-2003	DE 10134605 A1 EP 1277973 A2	06-02-2003 22-01-2003
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